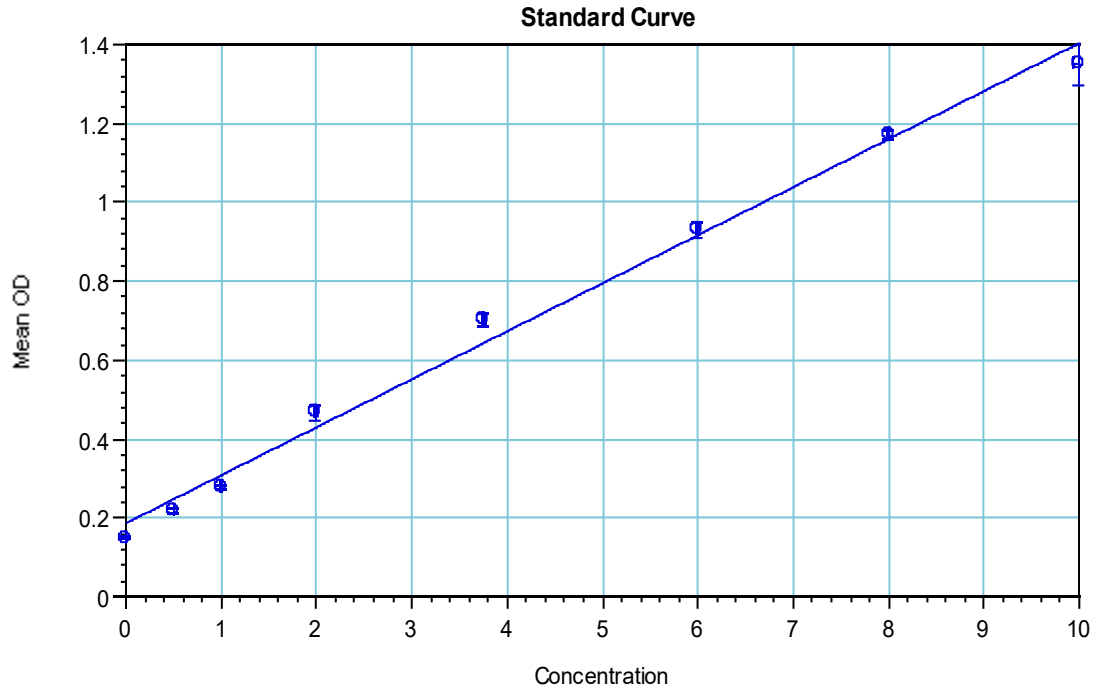


2024-2025 Genetic Trait Purity PT

- 1.) Based on the following data from a completed quantitative DAS ELISA, determine the mean absorbance of each sample. Calculate the concentration of each based on those means.



Linear Fit: $y = A + Bx$: A B R²
 ○ Std (Standards: Concentration vs Mean OD) 0.183 0.122 0.992

| Sample | Optical Density | Average OD | Concentration |
|--------|-----------------|------------|---------------|
| 1a | 0.219 | | |
| 1b | 0.234 | | |
| 2a | 0.434 | | |
| 2b | 0.412 | | |
| 3a | 0.364 | | |
| 3b | 0.385 | | |
| 4a | 0.473 | | |
| 4b | 0.500 | | |
| 5a | 0.463 | | |
| 5b | 0.432 | | |
| 6a | 0.584 | | |
| 6b | 0.606 | | |
| 7a | 0.167 | | |
| 7b | 0.169 | | |
| 8a | 0.163 | | |
| 8b | 0.163 | | |

2024-2025 Genetic Trait Purity PT

- 2.) An enzyme which has lost the ability to function due to heating or improper pH is said to be:
- a) chemically challenged
 - b) disrupted
 - c) acidotic
 - d) denatured
- 3.) Name the two kinds of antibodies:
- 4.) ELISA stands for_____.
- 5.) The phenotype of an organism refers to its:
- a) genetic makeup
 - b) appearance
 - c) ability to reproduce
 - d) enzymatic structure